

RESOLUTION NO. 11-16-2021B

**A RESOLUTION ADOPTING THE
WEST POINT CITY WATER CONSERVATION PLAN**

WHEREAS, the Utah Water Conservation Act (73-10-32 UCA) requires all water systems serving more than 500 connections to have a Water Conservation Plan ("Plan"); and

WHEREAS, the Plan must be updated every five years; and

WHEREAS, said Plan has been updated and revised; and

WHEREAS, The City Council is in favor of said Plan.

NOW, THEREFORE, BE IT RESOLVED, FOUND AND ORDERED, by the City Council of West Point City as follows:

1. The City Council approves and accepts the West Point City Water Conservation Plan 2021.

PASSED AND ADOPTED this 16th day of November 2021.

WEST POINT CITY,
A Municipal Corporation

By: 
Erik Craythorne, Mayor

ATTEST:


Casey Arnold, City Recorder





***WEST POINT CITY
UPDATED
WATER CONSERVATION PLAN***

MAYOR

ERIK CRAYTHORNE

CITY COUNCIL

JERRY CHATTERTON

GARY PETERSEN

ANDY DAWSON

KENT HENDERSON

ANNETTE JUDD

CITY MANAGER

KYLE LAWS

JULY 2021

Prepared by:

WEST POINT CITY ENGINEER

BOYD DAVIS, P.E.

TABLE OF CONTENTS

I. Intorduction -----	1
II. Description of the West Point City Water System -----	1
III. Water Loss -----	2
IV. Water Problems, Conservation Measures and Goals -----	2
V. Current Conservation Practices -----	3
VI. Current Water Rates -----	3
VII. Implementing and Updating the Water Conservation Plan -----	4
 APPENDICES	
A. CONSERVATION PLAN ORDINANCE	
B. SERVICE AREA MAP	

I. Introduction

In July 1999 the West Point City “Water Management & Conservation Plan” was written to meet the requirements of the Utah Water Conservation Plan Act (73-10-32, UCA). The Act also requires that the plan be updated every 5 years. This plan is intended to meet the update requirement. Since the original 1999 was lacking in information, the reader will note that this updated plan is significantly different.

II. Description of the West Point City Water System

West Point City is located in the northwest corner of Davis County bordered by Weber County on the North, Clinton and Clearfield to the East, Syracuse to the South, and the Great Salt Lake to the West. West Point City is served by two water systems. The east half of the city is served by the West Point Water System and the west half is served by the Hooper Water Improvement District. This plan will focus on the West Point Water System.

The current population of West Point City is approximately 10,957, with 9,500 persons being served by the West Point Water System. It is anticipated that the buildout population will be 26,000 with 19,900 being served by the West Point System. Generally the growth has been residential; however we anticipate commercial developments to come in the near future and we are planning our water system now to be able to serve both the residential and commercial users.

Secondary water is available throughout the City. The secondary water system is owned and operated by the Davis and Weber Counties Canal Company.

Inventory of Water Resources

The majority of the water supply in the West Point System comes from Weber Basin Water Conservancy District. West Point City has an annual contract with the district to purchase the water. West Point also owns water rights in two wells located in the City that act as a backup to the water purchased from Weber Basin. The wells are regularly sampled and tested to ensure that they meet drinking water standards. The wells are able to pump directly into the West Point City Water System in the event that they are needed so no additional contract with Weber Basin or any other agency is needed. The City also owns two 1 million gallon water storage tanks that provides fire suppression, emergency, and equalization storage.

West Point City Culinary Water Sources			
Source Name	Type	Water Right #	Acre-ft
Well # 1	Underground Well	31-3205	744
Well # 3	Underground Well	31-1828; 31-2577	2911

West Point City Culinary Water Purchases

Source Name	Annual AF	Price per AF
Weber Basin	500	\$313.09
Weber Basin	200	\$246.60

Existing and Projected Connections and Water Use

The majority of the connections in West Point City are residential connections, however there are a number of commercial connections as well as institutional connections such as churches and schools.

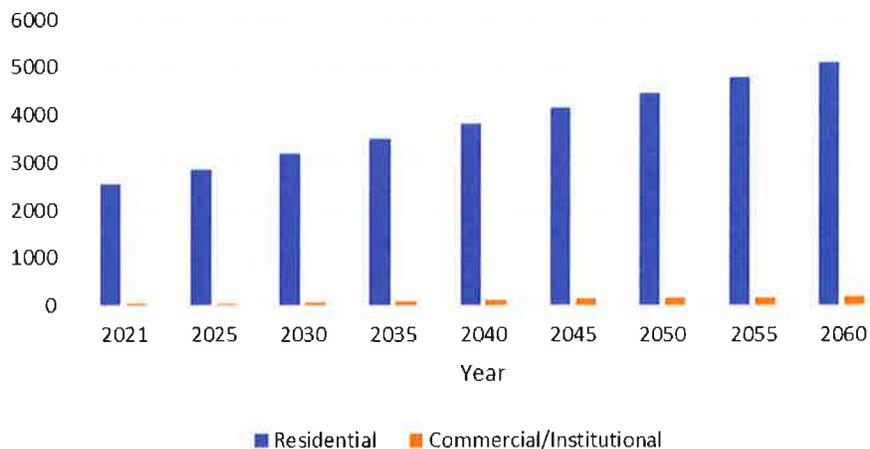
Existing Culinary Water Use

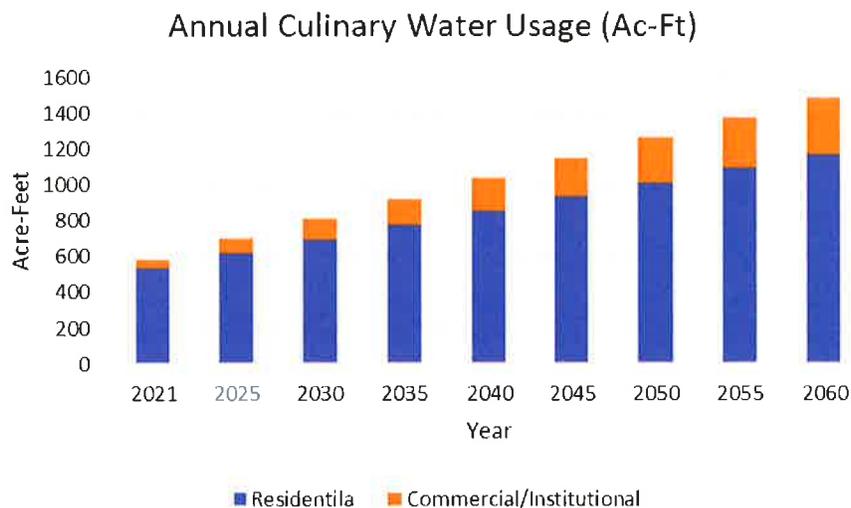
Conn. Type	Connections	Yearly Use per connection (AF)	Use (af/yr)	Gal/capita/day
Residential	2553	0.23	540	51
Institutional	13	1.4	18	
Commercial	18	1.6	28	

Projected Water Use - 40 yrs

Conn. Type	Connections	Yearly Use per connection (AF)	Use (AF/yr)
Residential	5100	0.23	1,173
Institutional	25	1.4	35
Commercial	175	1.6	280

Culinary Water Connections





Secondary Water Use

Secondary water is provided by the Davis and Weber Counties Canal Company. We estimate that 95% of all residents of West Point City are connected to the secondary water system. All new construction is required to connect to the system. There are also a number of different irrigation companies that provide irrigation water for agricultural purposes.

Future Water Supply

To ensure that future water needs will be met, West Point City has enacted an ordinance that requires all new construction to provide water shares to the City. Those water shares are converted from agricultural water to municipal water through a contract that the City has with the Weber Basin Water Conservancy District. Nearly all lands in the City have water shares associated with them the future. If any property does not have water shares then they will not be allowed to develop, which ensures that we will have adequate supply into the future.

III. Water Loss

We are able to measure water loss through the system by taking the difference between the water delivered to us from Weber Basin and the water usage measured by our meters. The water loss has been calculated to be 0.72%.

IV. Water Problems, Conservation Measures and Goals

Problems Identified

1. Lack of education. Many residents do not follow the appropriate watering times or over water their lawns and gardens.
 - a. Goal – West Point City would like to reduce indoor water usage by 3%. To accomplish this the City plans educations measures and a tiered water rate structure. West Point City has started and plans to continue to send out informational brochures and newsletters with suggestions on appropriate watering. The City has also hired a compliance officer who has the charge to notify residents who are violating the watering restrictions. The officer does this by means of a door tag. West Point City is also applying for a grant that will be used to purchase software that will allow residents to view current data of their water usage, both indoor and outdoor.
2. Evaluation. In order to evaluate the progress we will review the water usage annually when the water data is submitted to the Division of Water Rights. We will include these metrics in the next update to this Water Conservation report which is due in 2026.

V. Current Conservation Practices

West Point City has already implemented several water conservation measures and policies to encourage the residents of the City to conserve water. The following describes many of these measures.

1. Water Ordinance. The City currently has an ordinance that makes it unlawful to waste water or to use it for inappropriate uses. This ordinance also allows the City to restrict water use in times of shortage.
2. City Newsletter. Every month a newsletter is mailed to the home of each resident of West Point City. The topics of the newsletter are varied, but often focus on water conservation practices, especially during the watering season. The newsletters have been very effective.
3. Davis & Weber Canal Co. This company owns and operates the secondary water system. They send out regular information regarding water restrictions and water efficient landscaping.
4. Secondary Water Meters. The secondary water company has installed hundreds of meters on the secondary system. All new connections are also required to install meters. They send out regular usage reports and have found that this greatly reduces the water usage.

VI. Current Water Rates

West Point City has adopted a tiered water rate structure that incentivizes water conservation. It will be reviewed regularly to determine if it should be adjusted. The city has also installed radio read meters that allow an accurate monthly reading to ensure that residents are being accurately billed for the water they use. The following table lists the current water rates.

Current Water Rates - Monthly			
Conn. Type	base rate (includes 6,000 gal)	Each additional 1,000 gal up to 10,000	Each additional 1,000 gal over 10,000
all	\$23.75	\$1.40	\$1.65

VII. Implementation, Monitoring and Evaluation

The implementation schedule and responsible person for each program is listed below. This conservation report will be updated every 5 years as required.

Implementation, Monitoring and Evaluation				
Program	Responsible Person	Begin Date	End Date	Evaluation Schedule
Review Water Ordinance	City Engineer	2022	none	yearly
City Newsletter	Communications Mngr	unknown	none	monthly
Secondary Water Meters	Davis & Weber Canal Co.	2017	none	Yearly

Appendix B – Service Area Map

